## INTERNATIONAL SEARCH REPORT

Interior nat Application No
PCT/EP2005/051404

| A. CLASSI   | CLASSIFICATION OF SUBJECT MATTER   |  |                                       |
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|   | G21K1/00   |  |                                       |
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|   | G21K   |  |                                       |
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| Documenta   | tion searched other than minimum documentation to the extent tha   | t such documents are included in the fields se                                       | earched                               |
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| EPO-In  | to Intermet and Patent Classification system followed by classification symbols (G21K)  SEARCHED  Commission swerthed Classification system followed by classification symbols (G21K)  alternative swerthed other than minimum documentation to the octent that such documents are included in the fields searched that base should be searched that such documents are included in the fields searched that base should be searched that such documents are included in the fields searched that base should be searched that such documents are included in the fields searched that base and, where providing, search terms used) the entire that such documents are included in the fields searched that base and, where providing, search terms used) the entire that such documents are included by K-ray in rand in data tion.  COLLINS C B ET AL: "Accelerated emission of gamma rays from the 31-yr isomer of <a "8"="" "x"="" "y"="" 12="" 14="" 2005<="" a="" after="" alone="" an="" and="" application="" be="" being="" but="" cannot="" cited="" claimed="" combination="" conflict="" considered="" control="" date="" document="" family="" filing="" href="https://linear.py.ny.ny.ny.ny.ny.ny.ny.ny.ny.ny.ny.ny.ny&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;that such documents are included in the fields searched  to base and, where practical, search terms used)  the relevant passages  et elevant passages  et elevant passages  et elevant to ctaim No.  1–10  Patent family members are listed in annex.  " in="" international="" invention="" inventive="" involve="" is="" later="" mailing="" member="" not="" of="" or="" over="" oxidious="" particular="" patent="" person="" principle="" priority="" published="" relevance;="" report="" same="" search="" skilled="" srt.="" step="" such="" t"="" taken="" td="" the="" theory="" to="" underlying="" understand="" when="" with=""></a> |  |                                       |
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| с росим   | ENTS CONSIDERED TO BE RELEVANT   |  |                                       |
| Category °  |  | relevant nassanes  | Relevant to claim No.                 |
| Outogoly  | Challer of document, with indication, where appropriate, of the r  | elevant passages   | rielevant to claim No.                |
| Χ   | COLLING C P ET AL. "Accolorates  | d omicaios   | 7 10                                  |
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|   | <pre>&lt;178&gt;Hf induced by X-ray irradiation" PHYSICAL REVIEW LETTERS APS USA, vol. 82, no. 4, 25 January 1999 (1999-01-25), pages 695-698, XP002304655 ISSN: 0031-9007</pre>   |  |                                       |
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| X Furth   | ner documents are listed in the continuation of box C.   | Patent family members are listed in  | n annex.                              |
| ° Special cal   | tegories of cited documents :  |  |                                       |
| "A" docume  | ent defining the general state of the lart which is not  | or priority date and not in conflict with t  | he application but                    |
| conside   | ered to be of particular relevance   |  | ory underlying the                    |
| filing da   | ate  | "X" document of particular relevance; the cl<br>cannot be considered novel or cannot | aimed invention<br>be considered to   |
| which i   | is cited to establish the publication date of another  | involve an inventive step when the doc   | ument is taken alone                  |
| citation  | or other special reason (as specified)   | cannot be considered to involve an inv   | entive step when the                  |
| other n   | neans  | ments, such combination being obviou   |                                       |
| r document published prior to the international ming date but |  | amily  |                                       |
| Date of the a   | actual completion of the international search  | •  | · · · · · · · · · · · · · · · · · · · |
| 8   | December 2005  | 14/12/2005   |                                       |
| Name and m  | nailing address of the ISA   | Authorized officer   |                                       |
| WITH IT   | European Patent Office, P.B. 5818 Patentlaan 2   |  |                                       |
|   | NL - 2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  | Canostagno F   |                                       |
|   | Fax: (+31-70) 340-3016   | oapostagilo, L   |                                       |

## INTERNATIONAL SEARCH REPORT

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| C.(Continu<br>Category ° | ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |  |
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| A                        | COLLINS C B ET AL: "Evidence for the forced gamma emission from the 31-year isomer of hafnium-178" LASER PHYSICS MAIK NAUKA/INTERPERIODICA PUBLISHING RUSSIA, vol. 9, no. 1, February 1999 (1999-02), pages 8-11, XP008038352 ISSN: 1054-660X the whole document                | 1,2,10                |  |
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| A. CLASSE   | MENT DE L'OBJET DE LA DEMANDE<br>G21K1/00   |   |   |  |  |
|---|---|---|---|--|--|
| Selon la classification internationale des brevets (CIB) ou à la fois selon la classification nationale et la CIB |   |   |   |  |  |
| B. DOMAIN   | IES SUR LESQUELS LA RECHERCHE A PORTE   |   |   |  |  |
| Documentation minimale consultée (système de classification suivi des symboles de classement)  G21K               |   |   |   |  |  |
|   | ion consultée autre que la documentation minimale dans la mesure où   |   |   |  |  |
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| C. DOCUM  | ENTS CONSIDERES COMME PERTINENTS  |   |   |  |  |
| Catégorie °   | ldentification des documents cités, avec, le cas échéant, l'indication d  | des passages pertinents   | no. des revendications visées   |  |  |
| X   | COLLINS C B ET AL: "Accelerated e of gamma rays from the 31-yr isome <178>Hf induced by X-ray irradiati PHYSICAL REVIEW LETTERS APS USA, vol. 82, no. 4, 25 janvier 1999 (1999-01-25), page 695-698, XP002304655 ISSN: 0031-9007 le document en entier  | er of<br>on"  | 1-10  |  |  |
| X Voir  | la suite du cadre C pour la fin de la liste des documents   | Les documents de familles de bre  | vets sont indiqués en annexe  |  |  |
| "A" docume consid "E" docume ou aprille docume priorité autre curs docume une ex                                  | nt pouvant jeter un doute sur une revendication de cou cité pour déterminer la date de publication d'une citation ou pour une raison spéciale (telle qu'indiquée) ent se référant à une divulgation orale, à un usage, à position ou tous autres moyens ent publié avant la date de dépôt international, mais | document ultérieur publié après la date date de priorité et n'appartenenant partechnique pertinent, mais cité pour cou la théorie constituant la base de l'i document particulièrement pertinent; l'être considérée comme nouvelle ou d'inventive par rapport au document co document particulièrement pertinent; l'ne peut être considérée comme implie lorsque le document est associé à un documents de même nature, cette co pour une personne du métier document qui fait partie de la même fa | is à l'état de la<br>imprendre le principe<br>nvention<br>inven tion revendiquée ne peut<br>comme impliquant une activité<br>nsidéré isolément<br>inven tion revendiquée<br>quant une activité inventive<br>ou plusieurs autres<br>mbinaison étant évidente |  |  |
| ·   | elle la recherche internationale a été effectivement achevée  | Date d'expédition du présent rapport d  | e recherche internationale  |  |  |
|   | décembre 2005   | 14/12/2005  Fonctionnaire autorisé  |   |  |  |
| Nom et aure   | sse postale de l'administration chargée de la recherche internationale Office Européen des Brevets, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016  | Capostagno, E   |   |  |  |

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| PCT/EP2005/0      | 51404 |

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